2011 LUMIX®
DMC-TS3 Digital Camera

Screen image simulated.

ADVANCED TOUGH DESIGN (40FT WATERPROOF, 6.6FT SHOCKPROOF, 14˚F FREEZE-PROOF, DUSTPROOF)
Quad Protection—waterproof, dustproof, freezeproof and shockproof.

FULL HD MOVIE RECORDING
Create beautifully detailed, crisp and vivid movies with 1080i resolution.

GPS FUNCTION + COMPASS + ALTIMETER + BAROMETRIC SENSOR FOR OUTDOOR USE
Tags your photos and videos with place names and coordinate details, plus track environmental conditions during active lifestyle pursuits.

- 12.1 Megapixels
- 4.6x Optical Zoom
- 2.7" LCD
- Intelligent Resolution Technology
- iA Mode
- 3D Photo Assist

Waterproof down to 12 m 40 ft | Shockproof up to 2m 6.6ft | Freezeproof down to -10°c 14°F | Dustproof | FULL HD 1920×1080 AVCHD | GPS | 12.1 MEGAPIXELS | 4.6x Optical Zoom | 2.7" LCD | iA

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DMC-TS3 Digital Camera

METRICS			
	Dimensions (W x H x D)		103.5 x 64.0 x 26.5 mm (4.07 x 2.52 x 1.04 in)
	Weight		Approx. 175g without Battery and SD Memory Card (0.386 lb)
			Approx. 197g with Battery and SD Memory Card (0.434 lb)
OPTICS			
Pixels	Camera Effective Pixels		12.1 Megapixels
Sensor	Sensor Size/ Total Pixels/ Filter		1/2.33 - in CCD sensor/ 12.5 Megapixels/ Primary Color Filter
Lens	Aperture		F3.3 - 5.9/ Iris Diaphragm (F3.3 - 10(W)/ F5.9 - 18(T))
	Optical Zoom		4.6X
	Focal Length		f=4.9 - 22.8 mm (28 - 128 mm in 35 mm equiv.)
			(30 - 140 mm in 35 mm equiv. in movie recording)
	Extra Optical Zoom (EZ)		5.7X (4:3/ 8M), 7.3X (4:3/ 5M), 9.1X (under 3M)
	Intelligent Zoom		6X
	Lens		LEICA DC VARIO-ELMAR
			10 elements in 8 groups
			(5 Aspherical Lenses/ 6 Aspherical surfaces/ 1 ED Lens)
	2-Speed Zoom		No
	Optical Image Stabilizer		POWER O.I.S. (On/ Off/ Active Mode (only for motion picture))
	Conversion lens Compatibility		—
	Digital Zoom		4X
			(Max. 18.4X combined with Optical Zoom without Extra Optical Zoom)
			(Max. 36.3X combined with Extra Optical Zoom)
Focus	Focusing Area		Normal: Wide/ Tele 30 cm - infinity
			Macro/ Intelligent AUTO/ movie recording: Wide 5 cm - infinity/ Tele 30 cm - infinity
	Focus Range Display		Yes
	AF Assist Lamp		Yes (LED lamp in motion picture Mode)
	Focus		Normal/ AF Macro, Zoom Macro, Quick AF, AF Tracking Continuous AF (only for motion picture)
	AF Metering		Face/ AF Tracking/ 23pt/ 1pt/ Spot
Shutter	Shutter Speed		Still: 8 - 1/1300 sec Starry Sky Mode : 15, 30, 60 sec.
	Shutter Interval		Approx. 0.3 sec
Finder	Viewfinder		—
RECORDING			
iA	Face Recognition		Photo
	Optical Image Stabilizer		Photo/ Movie
	Intelligent ISO Control		Photo
	Face Detection		Photo/ Movie
	Intelligent Scene Selector		Photo (Portrait, Scenery, Night Portrait, Night Scenery, Sunset, Macro) Movie (Portrait, Scenery, Low Light, Macro)
	Intelligent Exposure		Photo/ Movie
	AF Tracking		Photo
	Digital Red Eye Correction (Red Eye Removal)		Photo
	iA Direct Button		—
	Intelligent Resolution Technology		Photo/ Movie
File	File Format		Still Image: JPEG (DCF/ Exif2.3)
			3D Image: MPO
			Motion picture: AVCHD, QuickTime Motion JPEG
	AVCHD/ AVCHD Lite REC		NTSC
Interface	Mode Switch		[Playback] button
	One-Touch Movie Button		Yes
Recording Modes	Mode Dial/ Mode Button		Intelligent AUTO, Normal Picture, Sports, Snow, Beach & Snorkeling, Underwater, SCN , 3D Photo
	Still Image Scene Mode		Portrait, Soft Skin, Transform, Self-Portrait, Scenery, Panorama Assist, Night Portrait, Night Scenery, Handheld Night Shot, Food, Party, Candle Light, Baby1, Baby2, Pet, Sunset, High sensitivity, High-Speed Burst (Image priority, Speed priority), Flash Burst, Starry Sky, Fireworks, Aerial, Pinhole, Film Grain, High Dynamic (standard/ art/ B&W), Photo Frame
	Movie Scene Mode		Portrait, Soft Skin, Transform, Self-Portrait, Scenery, Low Light, Food, Party, Candle Light, Sunset, Aerial, Pinhole, Film Grain, High Sensitivity, High Dynamic (Standard, Art, B&W) (Activated by selecting Still Picture Scene Mode then pressing movie button. Still Picture Scene Modes without corresponding Movie Scene Mode is recorded in Normal Mode)
	Continuous Shooting Mode		Full-Resolution Image, 3.7 frames/ sec Max. 7 images
			High-Speed Burst Mode: approx. 7 frames/ sec (image priority) approx. 10 frames/ sec (speed priority) (recorded in 3M for 4:3, 2.5M for 3:2, 2M for 16:9, 2.5M for 1:1)
	Unlimited Consecutive Shooting		—
	Motion Picture Recording (*2)	4:3	VGA: 640 x 480 pixels, 30fps (Motion JPEG)
			QVGA: 320 x 240 pixels, 30 fps (Motion JPEG)
		HD Movie	1920 x 1080 pixels, 60i (Sensor output is 30p) (FSH:17Mbps, GFS:17Mbps/ AVCHD) 1280 x 720 pixels, 60p (Sensor output is 30p) (GS:17Mbps, SH:17Mbps/ AVCHD) 1280 x 720 pixels, 30fps (QuickTime MotionJPEG)
Continuous Recordable Time (motion pictures)	AVCHD with picture quality		Approx. 100 min (GFS/ FSH), 110 min (GS, SH)
	MOTION JPEG with picture quality		Approx. 110 min
Actual Recordable Time (motion pictures)	AVCHD with picture quality		Approx. 50 min (GFS/ FSH), 55 min (GS, SH)
	MOTION JPEG with picture quality		Approx. 55 min
Exposure Parameters	Exposure		Program AE
	Exposure Compensation		1/3 EV step, +/-2 EV
	Backlight Compensation		Yes (only in Intelligent AUTO Mode)
	Auto (AE) Bracketing		1/3 –1EV step, Max +/-1, 3 frames
	Multi-Aspect		—
	Light Metering		Intelligent Multiple
	ISO Sensitivity		Auto/ i.ISO/ 100/ 200/ 400/ 800/ 1600 High Sensitivity Mode (ISO 1600 - 6400)
	Max Auto ISO Setting		—

*1 Recording conditions by CIPA standard
- CIPA is the acronym for Camera & Imaging Products Association.
- Temperature: 23 oC (73.4 oF)/Humidity: 50% when LCD monitor is on.
- Using a Panasonic SD Memory Card (32 MB).
- Using the supplied battery.
- Starting recording 30 seconds after the camera is turned on. (When the optical image stabilizer function is set to [AUTO].)
- Recording once every 30 seconds with full flash every second recording.
- Rotating the zoom lever from Tele to Wide or vice versa in every recording.
- Turning the camera off every 10 recordings and leaving it until the temperature of the battery decreases.
- The number of recordable pictures decreases in Auto Power LCD Mode and Power LCD Mode.

RECORDING CONTINUED			
Image Parameters	Aspect Ratio		1:1/ 4:3/ 3:2/ 16:9
	Still Picture Recording	1:1	2992 x 2992 9M)/ 2448 x 2448 (6M EZ)/ 1920 x 1920 (3.5M EZ) / 1536 x 1536 (2.5M EZ)/ 480 x 480 (0.2M EZ)
		4:3	4000 x 3000 (12M)/ 3264 x 2448(8M EZ)/ 2560 x 1920 (5M EZ) / 2048 x 1536 (3M EZ)/ 1600 x 1200 (2M EZ)/ 640 x 480 (0.3M EZ)
		3:2	4000 x 2672 (10.5M)/ 3264 x 2176 (7M EZ)/ 2560 x 1712 (4.5M EZ)/ 2048 x 1360 (2.5M EZ)/ 640 x 424 (0.3M EZ)
		16:9	4000 x 2248 (9M)/ 3264 x 1840 (6M EZ)/ 2560 x 1440 (3.5M EZ) / 1920 x 1080 (2M EZ)/ 640 x 360 (0.2M EZ)
	Image Quality		Fine/ Standard (3D Mode: MPO Fine/ MPO Standard)
	White Balance		Auto/ Daylight/ Cloudy/ Shade/ Incandescent/ White Set (Selectable at Portrait, Soft Skin, Transform, Self-Portrait, Panorama Assist, Sports, Baby, Pet, High Sensitivity, High-Speed Burst, Pinhole, Photo Frame, High Dynamic)
	Quick Menu		Yes
	Color Mode/ Color Effect		Standard, Natural, Vivid, Black & White, Sepia, Cool, Warm, Happy (only in iA Mode)
	Picture Adjustment		—
Others	Still Image with Audio Recording		—
	GPS		Yes
	Compass/ Barometer/ Altimeter		Yes/ Yes/ Yes
	Motion Deblur		Yes
	Flip Animation		—
	Real-time Histogram		Yes
	Composition Guide Line		Yes (2 pattern)
	Auto Review		off, 1 sec, 2 sec, Hold
	Easy Zoom/ Zoom Resume		—/ Yes
	Optical Zoom in Motion Picture		Yes
	Macro Zoom		Yes
	Orientation Detector		Yes
	Scene Mode Help Screen		No
	Self Timer		2 sec/ 10 sec
	Focus Icon Select		Yes (in Face Recognition only)
PLAYBACK			
Display	Playback Mode		Normal Playback, Slideshow, Filtering Playback Picture Only, Video Only, 3D, GPS, Travel, Category, Favorites), Calendar Playback
	Thumbnails/ Zoomed Playback		12/ 30-thumbnails/ Yes
	Calendar Display/ Dual-Image Playback		Yes/ No
	Set Favorites/ Rotate Image		Yes/ No
	Playback Still Images with Audio		—
	Playback Motion Picture		Yes (AVCHD/ Motion JPEG)
	Slideshow Mode		All/ Picture Only/ Video Only/ 3D/ GPS/ Travel/ Category/ Favorites BGM Effect (Natural/ Slow/ Swing/ Urban/ OFF)
	Show Histogram		Yes
	Show Highlights		—
Delete	Delete Image		Single/ Multi/ All/ All except Favorites
	DPOF Print Setting/ Set Protection		Yes/ Yes
Edit	Resize/ Cropping/ Aspect Conv./ Leveling		Yes/ Yes/ No/ No
	Copy/ Title Edit/ Text Stamp		Yes/ Yes/ Yes
	Cut Animation		Yes
	Video Divide		Yes
	PictBridge Support		Single/ Multi/ All/ Favorites/ DPOF
SETUP			
	OSD language		Please refer to "OSD" Sheet
	Movie REC Guide		Yes
	Wind-Cut in Motion Picture		Yes
	Travel Date/ World Time		Yes/ Yes
OTHERS			
Monitor	LCD Monitor		2.7" TFT Screen LCD Display (230K dots), AR Coating
			Field of View : approx. 100% Wide Viewing Angle
			AUTO Power LCD Mode, Power LCD Mode
	Touch Panel		No
Tough	Water Proof		12m (IPX8)
	Dust Proof		Yes (IPX6)
	Freeze Proof		-10°C
	Shock Proof		2m (based on MIL-STD)
Flash	Built-in-Flash		Auto, Auto/ Red Eye Reduction, Forced On, Slow Sync./ Red Eye Reduction, Forced Off
			0.3 - 5.6m (Wide/ ISO Auto), 0.3 - 3.1m (Tele/ ISO Auto)
	External Flash		—
Media	Recording Media		Built-in Memory, SD Memory Card, SDHC Memory Card, SDXC Memory Card
	Built-in-Memory		Approx. 19MB
Audio	Microphone/ Speaker		Mono/ Yes
Interface	Interface		Micro HDMI, AV Output (NTSC), USB2.0 High-Speed, DC Input (requires optional DC Coupler)
Network	Viera Link		Yes
	HDMI Output		Yes(AUTO)
	LUMIX Image Uploader		Yes
Power	Power		ID-Security Li-ion Battery Pack (3.6V, Minimum: 940mAh) (Included)
			AC Adaptor (Input: 110 - 240V AC) (Optional)
	Battery Life (approx.)		310 pictures (CIPA Standard)*1
Standard Package	Included Software		PHOTOfunSTUDIO 6.1 HD Lite Edition QuickTime Adobe Reader Super LoiLoScope (trial version)
	Standard Accessories		Battery Charger, Battery Pack, Brush
			AV cable, USB Cable
			Hand Strap, CD-ROM

*2 • These are standard times taken at a temperature of 23 oC (73.4 oF) and a humidity of 50%.
- The time available for recording varies depending on the environment, the interval between recordings and the manner of use.
- Actual recordable time is the time available for recording when repeating actions such as switching the power supply [ON]/ [OFF], starting/stopping recording, zoom operation etc.
- Motion picture recorded continuously in [MOTION JPEG] is up to 2 GB. Only the maximum recordable time for 2 GB is displayed on the screen.

*Motion images can be recorded continuously for up to 29 min 59 sec if [Rec Quality] is set to [GFS] or [FSH].
*If [Rec Quality] is set to [GFS] or [FSH], and if the surrounding temperature is high, or motion picture is recorded continuously, is displayed, and the recording may be stopped halfway through.

03/11 Specifications subject to change without notice.

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